

Building a Collaborative Earth Science Research Program:

*The University of New Hampshire
and
Elizabeth City State University
Strategic Research Partnership*



UNIVERSITY of
NEW HAMPSHIRE



Presenters

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UNH Institutional Context



- Land, Sea and Space Grant Institution
- Research Extensive
- \$86 million annually in funded research
- 60% of federal funding from NOAA & NASA

UNH Institutional Context (con'd)



- 13,000 students
- 2,300 graduate students
- Over 600 faculty
- 28 Doctoral Programs
- 83 Master's Degrees



ECSU Institutional Context

- University of North Carolina System
- 2300 undergraduate students
- 160 Faculty
- 74% African American Students
- Highest Retention Rate in N.C.



ECSU Institutional Context

- Graduate Programs in Education & Biology



- Ranked First By US News & World Report
Public Comprehensive University in the
South offering the Bachelor's Degree



Basis for Our Collaboration

- Real Partners
- Mutual Benefit
- Common Interests
- Institutional Commitment



Collaboration: Five Hard Steps

1. Assessment of Research Strengths
2. Institutional Commitment & Support
3. Focus on Quality (Not Quantity)
4. Getting and Staying Connected
5. Long-term Commitment to Process



Assessment of Research Strengths - UNH

Institute for the Study of Earth, Oceans & Space

Brings together areas of research excellence

Astrophysics

Atmospheric Chemistry

Biogeochemical Cycles

Climate Studies

Global Ecosystem Analysis

Oceanography

Space Physics



Institute for the Study of Earth, Oceans & Space

- Ranked 1st in U.S. in Geoscience research papers cited by other authors
- Ranked 4th in citations in Ecology/Env Science
- \$28 million / year in external research support
> 25% of UNH total)
~ 200 faculty, staff, students



Institute for the Study of Earth, Oceans & Space

- Affiliated with Depts of Earth Sciences, Natural Resources, Physics, Zoology
- Joint Center for Earth Sciences with NASA - Goddard Space Flight Center

UNIVERSITY of
NEW HAMPSHIRE



- Cross-College Natural Resources and Earth System Science Ph.D. Program

Institute for the Study of Earth, Oceans & Space

Research and Discover Program
Co-sponsored by NASA and UNH

An internship and a whole lot more. . .

www.eos.sr.unh.edu/ResearchAndDiscover



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Assessment Of Research Strengths - ECSU

Center of Excellence in Remote Sensing Education and Research



- Promotes innovative & relevant research collaboration focused on coastal ocean & marine environments
- Infrastructure and financial support provided by Navy, NASA, NOAA

Center of Excellence in Remote Sensing Education and Research (CERSER)

- Faculty Strengths in Academic Departments: Math/Computer Science; Geological, Environmental and Marine Science
- Training and Outreach Component
- IEEE Geoscience Remote Sensing Society Distinguished Lecture Series
- MU-Spin/NRTS Consortium: Six Partner Institutions—Provide training in Remote Sensing and GIS

Institutional Commitment & Support

UNH

Assoc. VP of Research & Outreach Scholarship
Dean of Life Sciences and Agriculture
Faculty Fellow
Strategic Plan



ECSU

Vice Chancellor
Dean, School of Math, Science, Technology

Focus on Quality (Not Quantity)

Research Collaborators:

- Open To and Acting on New Ideas
- Meetings with Several Institutions
- Lots of Discussion; Limited Action
- Decision to Collaborate with One Partner
- Movement Toward Specific Action



Getting and Staying Connected

- ECSU Presentation in D.C.
- UNH hosts ECSU
- Discuss Common Research Interests
 - Earth Science and Remote Sensing
- Ongoing Phone Discussions
- Identify Potential Ideas
- Discussions with Administrators



Long Term Commitment to Process

ECSU and UNH:

Beginning Stages

Specific plans - Collaborate on Proposals

NASA MU-SPIN

NSF and Others

Planning Workshops - 2004

Student and Faculty Exchange





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Questions, Discussion
And Comments